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NOTICE OF ALLOWANCE AND FEE(S) DUE

20277

7590

02/04/2009

MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096

EXAMINER

SCHWARTZ, DARREN B

ART UNIT PAPER NUMBER

2435 DATE MAILED: 02/04/2009

	APPLICATION NO.	PPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/523,720	02/07/2005	Toshihiko Fukuoka	71971-132	1073

TITLE OF INVENTION: ENCRYPTING/DECRYPTING DEVICE AND METHOD, ENCRYPTING DEVICE AND METHOD, AND TRANSMITTING/DECRYPTING DEVICE

AND METHOD, AND TRANSMITTING/RECEIVING DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notification	correspondence including the correspondence including the contraction of the correspondence including t	ng the Patent, advance of herwise in Block 1, by (orders and notification a) specifying a new c	of n	naintenance fees v pondence address;	vill be and/or	mailed to the current (b) indicating a sep	corres arate "	spondence address as FEE ADDRESS" for
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									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	COI	NFIRMATION NO.
10/523,720	02/07/2005		Toshihiko Fukuok	ca			71971-132		1073
TITLE OF INVENTION AND METHOD, AND		RYPTING DEVICE AN EIVING DEVICE	D METHOD, ENCRY	PTIN	NG DEVICE AND	METH	IOD, DECRYPTING	DEV	ICE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	OUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		05/04/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	s					
SCHWARTZ	Z, DARREN B	2435	380-255000						
 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Location Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form 			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
Number is required.	02 or more recent) attack •	ned. Use of a Customer	2 registered patent attorneys or agents. If no name is 3						
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Com GNEE	A TO BE PRINTED ON tified below, no assignee pletion of this form is NO	data will appear on t T a substitute for filin (B) RESIDENCE: (C	he pa g an a	atent. If an assign assignment. and STATE OR C	COUNT	RY)		ent has been filed for
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 4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) 			 b. Payment of Fee(s): (A check is enclosed 		se first reapply ai	ny prev	iously paid issue fee	showr	1 above)
			Payment by credit card. Form PTO-2038 is attached.						
Advance Order -	# of Copies		The Director is he overpayment, to I	ereby Depo:	authorized to char sit Account Numbe	ge the i	required fee(s), any de	eficiend n extra	cy, or credit any a copy of this form).
5. Change in Entity Sta	atus (from status indicate		_				TITY status. See 37 C	FR 1 2	27(g)(2)
NOTE: The Issue Fee an	nd Publication Fee (if req	uired) will not be accepted test Patent and Trademar.	ed from anyone other th						
Authorized Signature					Date				
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an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	ntiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DO 313-1450.	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR e USPTO. Time will var rden, should be sent to the O NOT SEND FEES OR persons are required to re	1.14. This collection is depending upon the second control of the control of the complete of the control of the	is est indiv Office IS TC	imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS	minutes omment Traden S. SENI	to complete, including on the amount of the total of the	ng gath me you artmen for Pa	nering, preparing, and u require to complete nt of Commerce, P.O. tents, P.O. Box 1450,



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10/523,720	10/523,720 02/07/2005 Toshihiko Fuku		71971-132 1073			
20277 75	590 02/04/2009		EXAM	INER		
MCDERMOTT '	WILL & EMERY LI	SCHWARTZ, DARREN B				
600 13TH STREE	,		ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20005-3096			2435			
			DATE MAILED: 02/04/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 772 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 772 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/523,720	FUKUOKA ET AL.			
Notice of Allowability	Examiner	Art Unit			
	DARREN SCHWARTZ	2435			
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the GOR REMAINS) CLOSED in this a communication or other appropriate communication is subject and MPEP 1308.	correspondence address application. If not included on will be mailed in due course. THIS			
1. This communication is responsive to the after final amend	ment illed 21 January 2009.				
2. The allowed claim(s) is/are <u>21-33</u> .					
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.				
3. X Copies of the certified copies of the priority do	ocuments have been received in thi	is national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv					
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsper		O-948) attached			
1) hereto or 2) to Paper No./Mail Date	• •	,			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	_	Office action of			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in					
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa	ry (PTO-413),			
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail □ 7. ☐ Examiner's Amen	Oate dment/Comment			
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	_				
 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☑ Examiner's Statement of Reasons for Allowance 9. ☐ Other 					
/DARREN SCHWARTZ/					
Examiner, Art Unit 2435					

DETAILED ACTION

Applicant cancels claim 34. Claims 21-33 are presented for examination.

Allowable Subject Matter

Claims 21-33 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the claims teach an ECB processor for performing the ECB processing and outputting the result as cipher-processed data; a first selector for selecting one of the processing block input data and the cipher-processed data according to the encryption/decryption switch signal and the mode selection signal, and outputting the selected data; a delay device for delaying the processing block input data and the cipher-processed data received as inputs and outputting the delayed data; a second selector for selecting one of the processing block input data, initial vector data, and the delayed processing block input data and the delayed cipher-processed data output from the delay device according to the encryption/decryption switch signal and the mode selection signal, and outputting the selected data; an XOR operator for computing XOR of the output of the first selector and the output of the second selector and outputting the computed result; a third selector for selecting one of the processing block input data, the output of the XOR operator, the delayed processing block input data and the delayed cipher-processed data according to the encryption/decryption switch signal and the mode selection signal, and outputting the selected data; a bit mask device for masking part of the key data as required according to the mode selection signal and

outputting the result as mode-adaptive key data; and a fourth selector for selecting one of the cipher-processed data and the output of the XOR operator according to the encryption/decryption switch signal and the mode selection signal, and outputting the selected data as the encrypted result or the decrypted result, and the ECB processor performs either encryption or decryption as the ECB processing for the output of the third selector using the mode-adaptive key data according to the encryption/decryption switch signal and the mode selection signal, and outputs the result as the cipher-processed data. These features are not suggested or disclosed within the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTOL-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DARREN SCHWARTZ whose telephone number is (571)270-3850. The examiner can normally be reached on 8am-4pm.

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Art Unit: 2435

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571)272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. S./ Examiner, Art Unit 2435